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Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv)) for US only*

Published:
— *with international search report*

(88) Date of publication of the international search report:
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR EXPRESSION AND SECRETION OF PROTEINS BY THE NON-CONVENTIONAL YEAST *ZYGOSACCHAROMYCES BAILII*

(57) Abstract: Herein is disclosed a method for the production of proteins. The protein is expressed by a yeast belonging to the species *Zygosaccharomyces bailii*. The yeast secretes the protein produced into the culture medium from where it is isolated, thereby simplifying the isolation process. Preferably the yeast is cultivated in chemically defined medium, thereby further simplifying the isolation process significantly.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12377

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N1/16 C12N15/81 C07K14/39

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/41477 A (BIOPOLLO S C A R L ; BRAMBILLA LUCA (IT); PORRO DANILO (IT); VAI MARINA) 20 July 2000 (2000-07-20)	1-5,7,9, 15-21
Y	abstract page 3, line 12 - line 14 examples page 14 claims	8,13
Y	----- PATENT ABSTRACTS OF JAPAN vol. 0123, no. 58 (C-531), 26 September 1988 (1988-09-26) & JP 63 112986 A (SUMITOMO CHEM CO LTD), 18 May 1988 (1988-05-18) abstract ----- -/-	8



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

9 July 2004

Date of mailing of the international search report

11.10.04

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12377

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 095 986 A (ELF BIO RECH) 7 December 1983 (1983-12-07) abstract claim 1	11
Y	----- WO 98/20035 A (UNIV AUTONOMA DE NUEVO LEON ; VIADER SALVADO JOSE MARIA (MX); BARRERA) 14 May 1998 (1998-05-14) abstract -----	13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/12377

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 12, 14
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-21 in part

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 12, 14

Subject matter of claims 12 and 14 is defined by reference to a figure, therefore not complying to Rule 6.2(a) PCT. The definition of the subject matter by reference to figures does not allow to establish correctly its relation to the state of the art. A search for the claim could not be performed.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.63.

2. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.64.

3. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.65.

4. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.66.

5. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 3 bases of Seq.Id.No.67.

6. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.68.

7. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.69.

8. claims: 1-21 in part.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.70.

9. claims: 1-21 in part.

Process for production of proteins in *Zygosaccharomyces bailii*, strains and vectors. Said vectors containing at least 35 bases of Seq.Id.No.71.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/12377

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